

# COLORADO

## WATER SUPPLY OUTLOOK REPORT

### MAY 1, 2000

#### Summary

Warm temperatures, and dryer conditions than the previous two months, were prevalent across the state during April. As a result, the state's snowpack peaked for water content in early April and has rapidly decreased during the remainder of the month as melting began. While there were a few impressive mountain snowstorms during the month, they did little to substantially increase the overall water content of the snowpack. The snowpack across the state remains generally below average across most of the state, with portions of southern Colorado remaining critically below average. The one bright spot on the water supply horizon continues to be the excellent reservoir storage that continues to be reported across most of the state. This water will be invaluable to many water users who are faced with near certain summer runoff shortages.

#### Snowpack

April 2000 was a striking contrast to April of last year, with much more typical spring weather returning to the state. While more typical, weather patterns were generally dryer than normal, and did little to improve the state's snowpack percentages. In fact, decreases in percents of average snowpack from last month were measured in all of the basins. The greatest decrease was measured in the Gunnison, Rio Grande and San Juan, Animas, Dolores, and San Miguel basins. Just when the snowpack in these basins began to substantially improve, April's warm and dry weather brought melting, resulting in a sharp decrease in the percents of average. Similar conditions brought substantial decreases in the percentages in the Colorado, South Platte, and the Yampa and White basins. This leaves nearly the entire state with below average snowpack readings on May 1. Continuing to be of most concern is the extremely low snowpack measured in the Rio Grande and San Juan basins. Most sites in these basins are only 30% to 50% of average for this time of year. Statewide, snowpack readings have dipped to 69% of average on May 1, down from the 90% of average measured a month ago. These readings are 74% of the snowpack measured last year at this time.

#### Precipitation

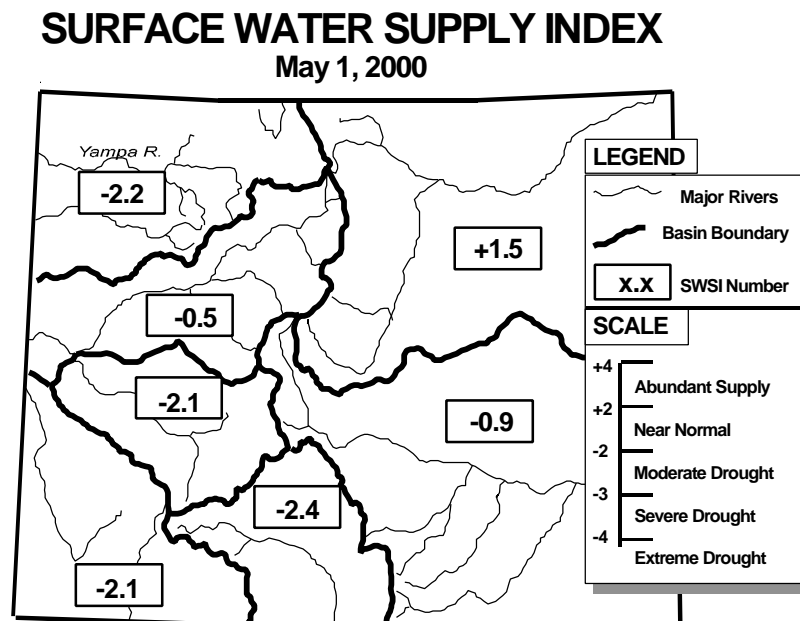
Generally dry conditions prevailed across most of the state during April. Lower elevation National Weather Service stations reported below average totals for the month in all of the basins except the Arkansas Basin. A return to dryer than average conditions has helped to maintain below average totals for the 2000 water year nearly statewide. Only the Arkansas Basin is able to report an above average water year total at 110% of average. As expected, the lowest water year percentages are reported across southwestern Colorado. The San Juan, Animas, Dolores, and San Miguel basin's received only 63% of average precipitation for the first six months of the 2000 water year. Statewide, precipitation during April was 80% of average, and this decreased the water year total for the state to 82% of average.

## Reservoir Storage

Most reservoir operators across the state are practicing judicious conservation of existing supplies. Storage continues to track at above average to well above average volumes across the state. With below average streamflows forecast in many locations, this additional water will be critical for many water users, especially if monsoon rains are below average. Reservoir storage across the state is now 141% of average. These volumes are 109% of last year's storage on this date. Continuing the trend for this year, the highest volumes are reported in the Arkansas Basin, at 259% of average storage. Other basins reporting well above average storage include the Rio Grande, Colorado, and Gunnison. Storage remains significantly above that of last year in most basins. Only the Yampa and South Platte are storing about the same volume as last year. The Arkansas Basin is currently reporting the highest percent of last year at 120%.

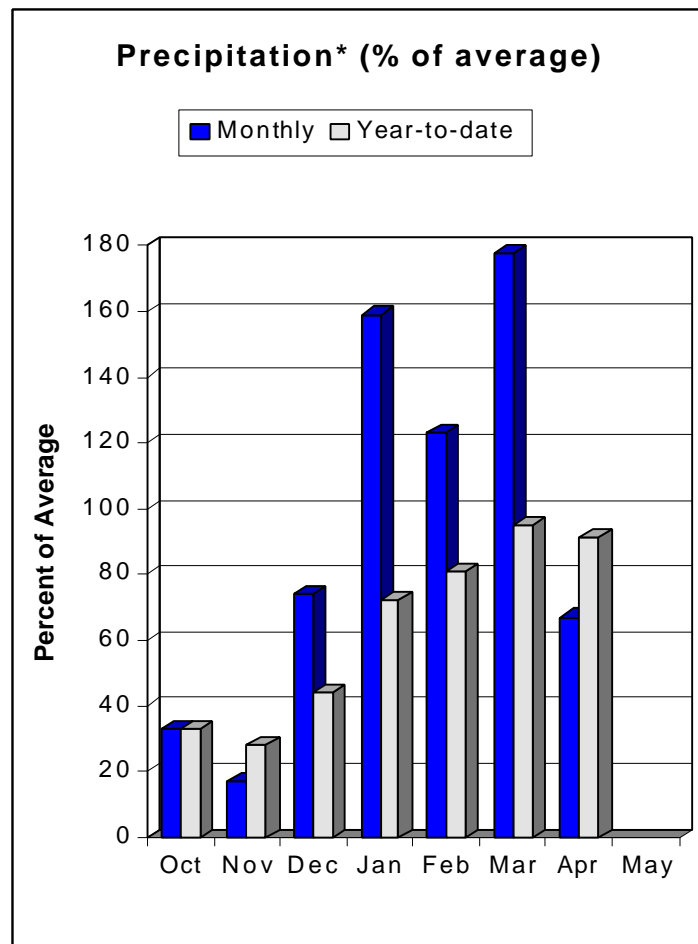
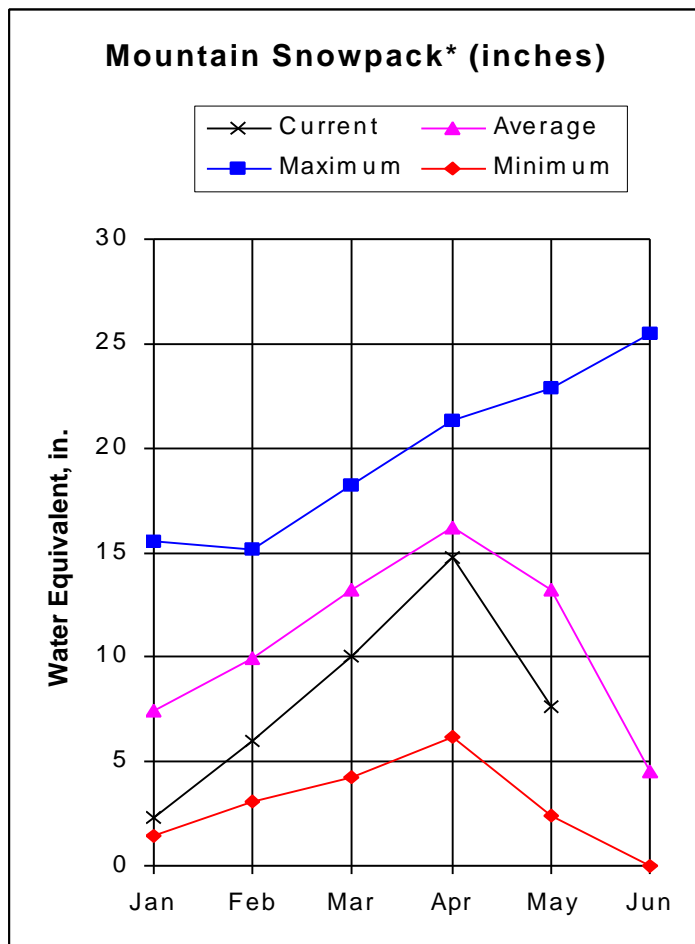
## Streamflow

Without a substantial increase in snowfall and precipitation during April, this month's streamflow forecasts continue to call for below average water supplies for much of the state. The lowest forecasts remain in the Rio Grande and San Juan basins of southern Colorado. Volumes of only about half of the average are expected on many of the streams in these basins. To the north, the outlook improves, yet remains below average for many basins. Runoff throughout much of the Gunnison, Animas, and White River basins is expected to be below average this year. The best forecasts for this year call for near average streamflows. For the most part, those locations with near average streamflows are located across the northern portion of the state and include the Colorado, Yampa, North Platte and South Platte basins. For the first time since the early 1990s, this year is shaping up to be one with no streams forecast to produce well above average streamflows.



The Surface Water Supply Index (SWSI) is a weighted value derived for each major basin which generally expresses the potential availability of the forthcoming season's water supply. The components used in computing the index are reservoir storage, snowpack water equivalent, and precipitation. The SWSI number for each basin ranges from a -4.0 (prospective water supplies extremely poor) to a +4.0 (prospective water supplies plentiful). The SWSI number is only a general indicator of surface water supply condition. Further data analysis may be required in specific situations to more fully understand the impacts of abnormally dry or wet conditions suggested by the SWSI. Development of the SWSI has been a cooperative effort between the Colorado State Engineer's Office and the Natural Resources Conservation Service.

# GUNNISON RIVER BASIN as of May 1, 2000



\*Based on selected stations

Extremely warm temperatures during April have caused the snowpack to melt much more rapidly than normal which has resulted in a May 1 accumulation of only 58% of average, which is 33% of average lower than last month. The snowpack is relatively uniform in all of the watersheds ranging from 57% in the Gunnison above Blue Mesa Reservoir, to 60% of average in the Surface Creek Watershed. There is only 64% of the amount of snow there was last year at this time. Precipitation in the lower elevations was only 67% of average during April, and the water year total is now 91% of average. Reservoirs in the basin are beginning to fill as managers prepare for a low runoff season. The combined storage is at 142% of average, which is about 5% more than last year at this time. May 1 streamflow forecasts are down from last month due to the warm temperatures and lack of precipitation. Most of the forecasts are well below average now, and range from only 58% of average at the Inflow to Paonia Reservoir, to 85% of average on Lake Fork at Gateview.

GUNNISON RIVER BASIN  
Streamflow Forecasts - May 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====								
Taylor River blw Taylor Park Resv	APR-JUL	58	72	82	83	92	106	99
East River at Almont	APR-JUL	105	126	140	77	154	175	183
Gunnison River nr Gunnison	APR-JUL	201	248	280	75	312	359	375
Tomichi Creek at Gunnison	APR-JUL	32	45	54	70	65	82	77
Lake Fork at Gateview	APR-JUL	85	97	105	85	113	125	123
Blue Mesa Reservoir Inflow	APR-JUL	386	484	550	79	616	714	699
Paonia Reservoir Inflow	MAR-JUN	48	56	62	61	68	78	101
	APR-JUL	42	52	60	58	68	81	104
N.F. Gunnison River nr Somerset	APR-JUL	138	165	185	64	206	239	288
Surface Creek nr Cedaredge	APR-JUL	7.5	8.9	10.0	63	11.2	13.3	16.0
Ridgway Reservoir Inflow	APR-JUL	63	73	80	82	88	101	98
Uncompahgre River at Colona	APR-JUL	71	87	99	79	112	131	126
Gunnison River nr Grand Junction	APR-JUL	654	860	1000	69	1140	1346	1448

GUNNISON RIVER BASIN  
Reservoir Storage (1000 AF) - End of April

GUNNISON RIVER BASIN  
Watershed Snowpack Analysis - May 1, 2000

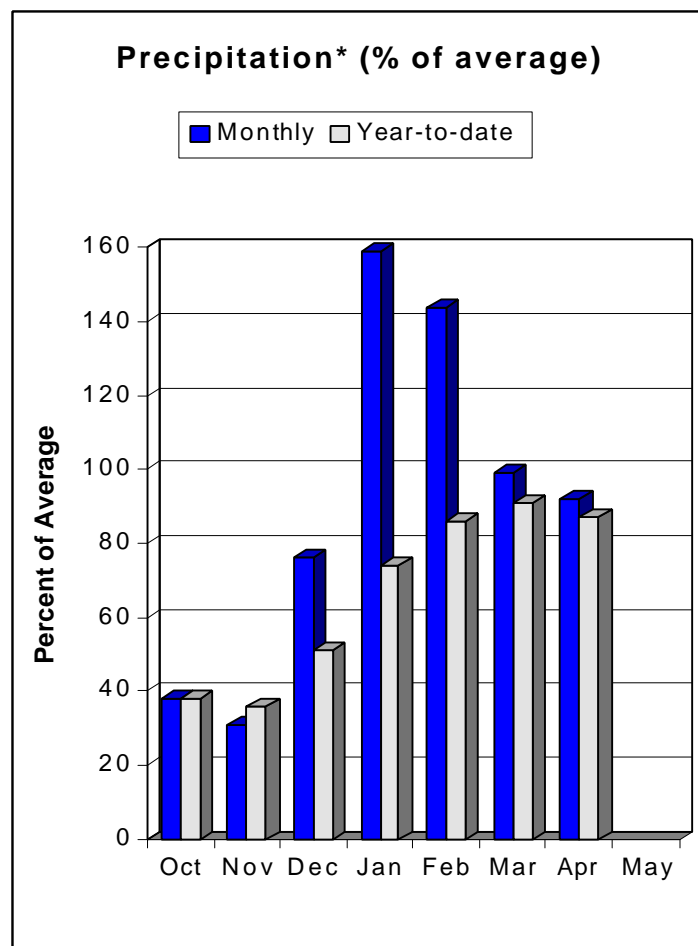
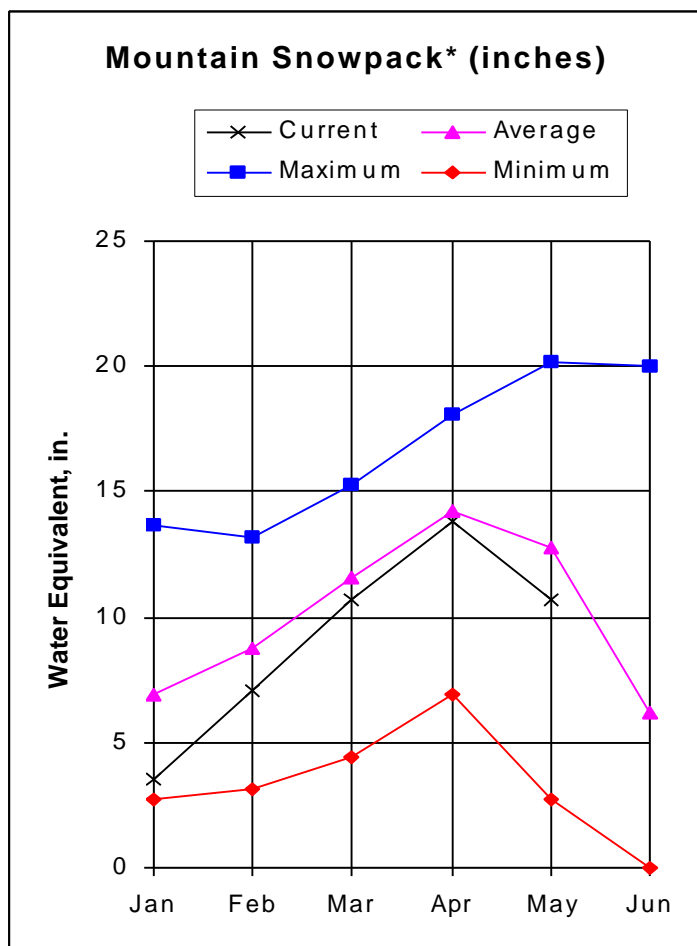
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BLUE MESA	830.0	554.9	535.7	334.5	UPPER GUNNISON BASIN	14	64	57
CRAWFORD	14.3	10.8	9.1	12.2	SURFACE CREEK BASIN	2	58	60
FRUITGROWERS	4.3	4.4	4.4	4.0	UNCOMPAHGRE BASIN	4	66	58
FRUITLAND	9.2	2.3	2.7	4.8	TOTAL GUNNISON RIVER BASIN	18	64	58
MORROW POINT	121.0	112.7	110.4	110.4				
PAONIA	18.0	6.5	16.5	8.2				
RIDGWAY	83.2	82.7	68.4	63.1				
TAYLOR PARK	106.0	72.3	60.0	57.7				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
(2) - The value is natural volume - actual volume may be affected by upstream water management.

## UPPER COLORADO RIVER BASIN as of May 1, 2000



\*Based on selected stations

Snowpack in the Colorado Basin began melting soon after the first of April, and with the exception of a few short snowfall events, it has continued to melt for most of the month leaving only enough snow on May 1 to be 84% of average, which is 13% of average lower than last month. The snowpack is highly variable throughout the basin ranging from only 60% of average in the Plateau Creek Watershed, to 120% of average in the Willow Creek Watershed. There is 92% of last year's snowpack amount. Precipitation in the basin was 92% of average during April, and the total precipitation for the water year is now at 87% of average. The combined reservoir storage volume in the basin remains very good on May 1 at 137% of average, which is about 5% more than last year's May 1 storage. Many of the streamflow forecasts are down slightly from last month, but most remain near average. Forecasts range from only 82% of average flow on the Roaring Fork at Glenwood Springs, to 105% of average on the East Fork of Troublesome Creek near Troublesome.

UPPER COLORADO RIVER BASIN  
Streamflow Forecasts - May 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Lake Granby Inflow	APR-JUL	175	192	205	96	219	240	214
Willow Creek Reservoir Inflow	APR-JUL	36	45	51	102	58	69	50
Williams Fork Reservoir inflow	APR-JUL	68	78	85	97	92	104	88
E.F. Troublesome Creek nr Troublesom	APR-JUL	13.6	17.1	19.5	105	22	25	18.5
Dillon Reservoir Inflow	APR-JUL	127	143	155	103	167	183	151
Green Mountain Reservoir inflow	APR-JUL	229	253	270	103	287	314	262
Muddy Creek blw Wolford Mtn. Resv.	APR-JUL	50	56	61	95	66	75	64
Eagle River blw Gypsum	APR-JUL	232	262	285	92	310	349	310
Colorado River nr Dotsero	APR-JUL	1029	1220	1350	99	1480	1671	1362
Ruedi Reservoir Inflow	APR-JUL	84	101	115	85	130	157	136
Roaring Fork at Glenwood Springs	APR-JUL	424	497	550	82	605	692	671
Colorado River nr Cameo	APR-JUL	1593	1913	2130	93	2347	2667	2287

UPPER COLORADO RIVER BASIN  
Reservoir Storage (1000 AF) - End of April

UPPER COLORADO RIVER BASIN  
Watershed Snowpack Analysis - May 1, 2000

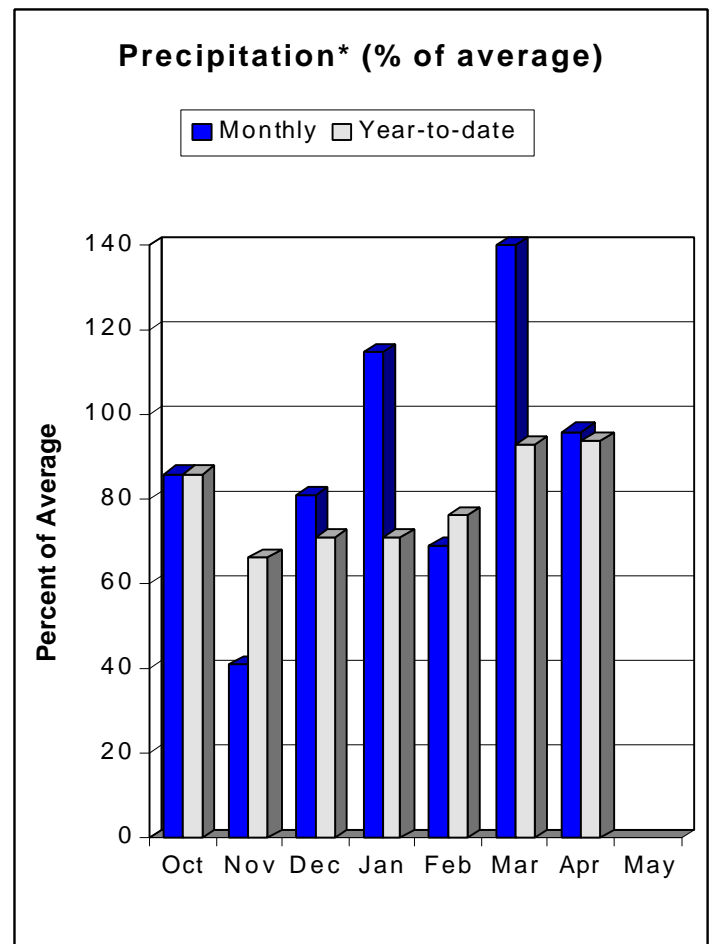
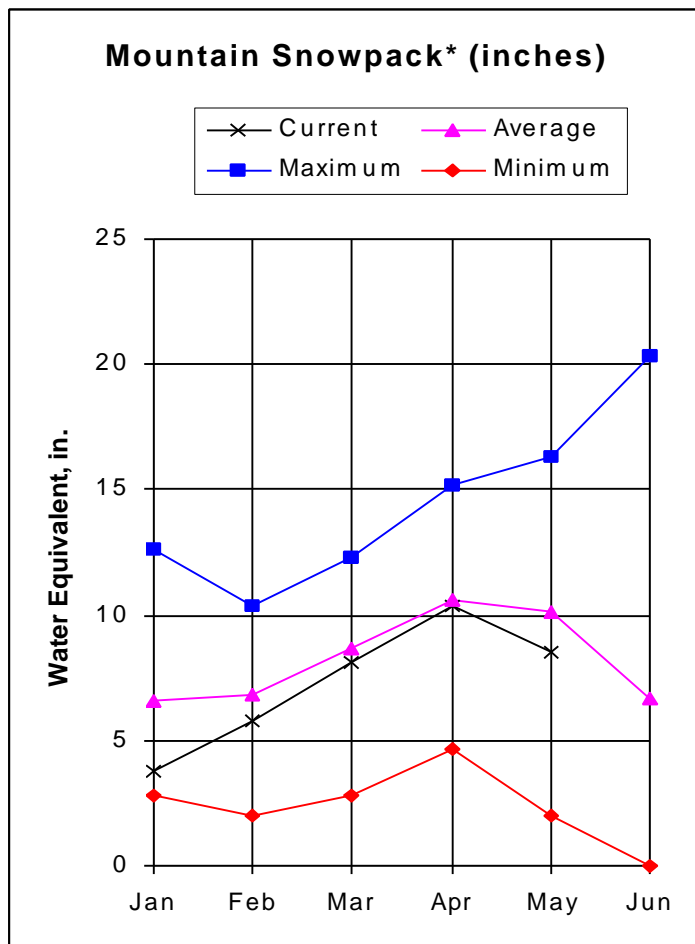
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DILLON	250.8	222.2	210.8	203.8	BLUE RIVER BASIN	8	83	94
LAKE GRANBY	465.6	366.5	346.6	220.8	UPPER COLORADO RIVER BASI	33	98	91
GREEN MOUNTAIN	139.0	63.1	61.0	49.7	MUDDY CREEK BASIN	3	90	77
HOMESTAKE	43.0	28.9	18.6	15.1	PLATEAU CREEK BASIN	2	58	60
RUEDI	102.0	63.6	66.5	59.8	ROARING FORK BASIN	8	81	67
VEGA	32.0	24.4	17.9	16.0	WILLIAMS FORK BASIN	5	112	92
WILLIAMS FORK	96.8	68.7	72.8	43.0	WILLOW CREEK BASIN	4	117	120
WILLOW CREEK	9.0	6.6	6.5	6.0	TOTAL COLORADO RIVER BASI	43	92	84

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

## SOUTH PLATTE RIVER BASIN as of May 1, 2000



\*Based on selected stations

Extremely warm temperatures during April have caused this season's snowpack to begin melting more rapidly than normal in the South Platte Basin. The remaining snow accumulation is only 85% of average, which is 13% of average lower than last month. The snowpack is highly variable throughout the basin ranging from only 53% of average in the St. Vrain Watershed to 100% of average in the Clear Creek Watershed. There is only 72% of last year's snowpack amount. Precipitation in the basin was 96% of average during April, and the water year total is now 94% of average. The combined reservoir storage in the basin is about average for May 1, and is about the same amount as last year at this time. The May 1 streamflow forecasts for the runoff season are lower than last month because of the warm temperatures and lack of additional snow in the high country during April. Forecasts range from only 62% of average flow at the inflow to Antero Reservoir, to 93% of average flow on the Big Thompson River at Mouth near Drake.

SOUTH PLATTE RIVER BASIN  
Streamflow Forecasts - May 1, 2000

		<<===== Drier ===== Future Conditions ===== Wetter =====>>						
Forecast Point	Forecast Period	=====		Chance Of Exceeding *		=====		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====								
Antero Reservoir inflow	APR-JUL	3.8	5.6	7.3	62	9.5	13.9	11.7
Spinney Mountain Reservoir inflow	APR-JUL	18.2	24	29	76	35	46	38
Elevenmile Canyon Reservoir inflow	APR-JUL	16.1	23	28	74	33	40	38
Cheesman Lake inflow	APR-JUL	42	52	59	70	68	83	84
South Platte River at South Platte	APR-SEP	92	134	162	76	190	231	213
Bear Creek at Morrison	APR-SEP	15.7	21	24	80	27	32	30
Clear Creek at Golden	APR-SEP	77	90	99	77	108	122	128
St. Vrain Creek at Lyons	APR-SEP	43	56	64	82	72	84	78
Boulder Creek nr Orodell	APR-SEP	35	40	43	83	46	51	52
South Boulder Creek nr Eldorado Spri	APR-SEP	19.0	29	36	80	43	53	45
Big Thompson River at mouth nr Drake	APR-SEP	83	97	106	93	115	128	114
Cache La Poudre at Canyon Mouth	APR-SEP	168	223	261	92	299	352	284

SOUTH PLATTE RIVER BASIN Reservoir Storage (1000 AF) - End of April					SOUTH PLATTE RIVER BASIN Watershed Snowpack Analysis - May 1, 2000			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ANTERO	20.0	20.0	20.1	14.7	BIG THOMPSON BASIN	6	78	84
BARR LAKE	32.0	28.9	29.8	27.3	BOULDER CREEK BASIN	5	50	57
BLACK HOLLOW	8.0	4.0	3.0	4.3	CACHE LA POUDRE BASIN	8	100	88
BOYD LAKE	49.0	41.9	42.1	36.7	CLEAR CREEK BASIN	4	88	100
CACHE LA POUDRE	10.0	10.0	10.5	8.7	SAINT VRAIN BASIN	3	49	53
CARTER	108.9	100.8	95.5	102.3	UPPER SOUTH PLATTE BASIN	17	58	96
CHAMBERS LAKE	9.0	5.5	6.0	3.7	TOTAL SOUTH PLATTE BASIN	41	72	85
CHEESMAN	79.0	71.4	57.9	60.6				
COBB LAKE	34.0	17.5	15.0	14.1				
ELEVEN MILE	97.8	101.2	100.0	92.0				
EMPIRE	38.0	33.4	35.1	32.8				
FOSSIL CREEK	12.0	6.5	9.5	8.1				
GROSS	41.8	27.6	21.8	21.5				
HALLIGAN	6.4	5.5	3.0	5.3				
HORSECREEK	16.0	14.5	14.5	14.7				
HORSETOOTH	149.7	102.6	98.0	120.5				
JACKSON	35.0	23.6	27.4	33.1				
JULESBURG	28.0	17.1	16.8	22.6				
LAKE LOVELAND	14.0	12.0	12.1	10.1				
LONE TREE	9.0	8.8	8.0	7.6				
MARIANO	6.0	5.6	5.2	5.1				
MARSHALL	10.0	9.6	5.1	6.3				
MARSTON	13.0	7.8	11.8	8.5				
MILTON	24.0	20.3	22.2	17.2				
POINT OF ROCKS	70.0	65.6	69.7	68.6				
PREWITT	33.0	22.6	24.6	24.4				
RIVERSIDE	63.1	52.6	62.4	58.1				
SPINNEY MOUNTAIN	48.7	33.6	30.5	33.9				
STANDLEY	42.0	41.2	37.6	29.1				
TERRY LAKE	8.0	6.5	5.5	5.7				
UNION	13.0	12.1	12.6	11.1				
WINDSOR	19.0	15.0	13.0	12.7				

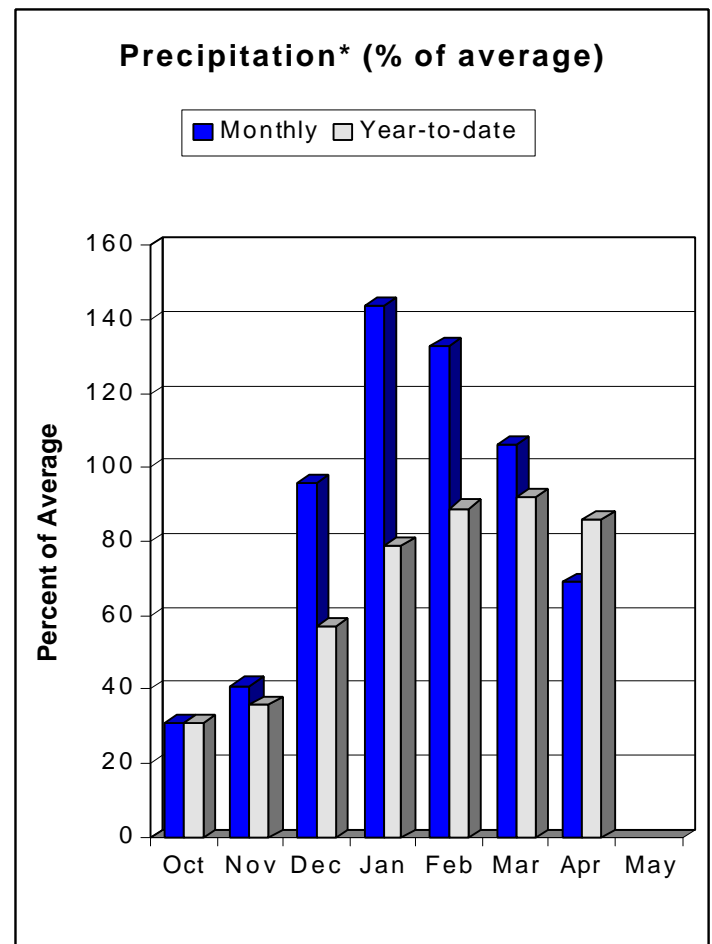
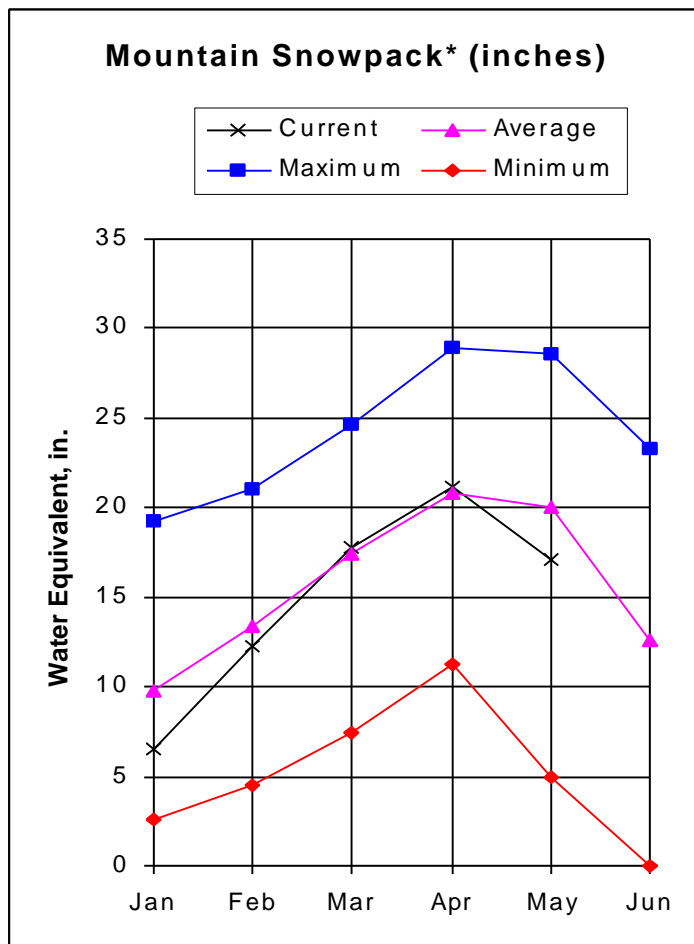
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(2) - The value is natural volume - actual volume may be affected by upstream water management.



## YAMPA, WHITE, NORTH PLATTE AND LARAMIE RIVER BASINS as of May 1, 2000



\*Based on selected stations

Very warm temperatures during much of April has caused the snowpack to begin melting in most locations in these basins. Although there was some snowfall during the month, there was no net increase to the snowpack amounts and most areas have much less snow now than one month ago. While the North Platte Basin's snowpack is at 94% of average, which is only slightly less than last month's, the Yampa and White basins have only 79% of average snowpack amounts, which is 22% of average less than last month. Precipitation in these basins during March was 69% of average. The water year total is 86% of average. The combined reservoir storage in these basins is about average, which is about the same storage as last year at this time. Most of the streamflow forecasts for the runoff season have gone down from last month with the exception of the Laramie River near Woods which has improved from the lowest forecast in these basins last month at 77% of average flow, to 102% of average now. The lowest forecast is on Elkhead Creek near Elkhead at only 51% of average.

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Streamflow Forecasts - May 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90%	70%	50% (Most Probable)		30%	10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
North Platte River nr Northgate	MAY-SEP	142	178	203	89	228	264	228
Laramie River nr Woods	MAY-SEP	84	111	129	102	147	174	127
Yampa R abv Stagecoach Res	APR-JUL	16.5	23	28	82	33	40	34
Yampa River at Steamboat Springs	APR-JUL	238	260	275	101	290	312	273
Elk River nr Milner	APR-JUL	160	197	224	75	253	299	300
Elkhead Creek nr Elkhead	APR-JUL	13.8	17.2	20	51	23	29	39
ELKHEAD CREEK blw Maynard Gulch	APR-JUL	17.3	27	34	58	41	51	59
Fortification Ck nr Fortification	MAR-JUN	2.45	4.32	5.60	66	6.88	8.75	8.50
Yampa River nr Maybell	APR-JUL	655	771	850	90	929	1045	947
Little Snake River nr Slater	APR-JUL	71	92	107	69	124	150	155
LITTLE SNAKE R nr Dixon	APR-JUL	109	172	215	65	258	321	329
LITTLE SNAKE R nr Lily	APR-JUL	120	185	230	64	275	340	358
White River nr Meeker	APR-JUL	139	165	185	66	208	246	279

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Reservoir Storage (1000 AF) - End of April

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Watershed Snowpack Analysis - May 1, 2000

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
STAGECOACH	33.3	26.8	27.8	28.8	LARAMIE RIVER BASIN	4	83	81
YAMCOLO	9.1	8.8	7.8	6.9	NORTH PLATTE RIVER BASIN	6	101	97
					TOTAL NORTH PLATTE BASIN	9	95	94
					ELK RIVER BASIN	2	71	57
					YAMPA RIVER BASIN	11	89	78
					WHITE RIVER BASIN	5	79	78
					TOTAL YAMPA AND WHITE RIV	16	87	79
					LITTLE SNAKE RIVER BASIN	8	70	68

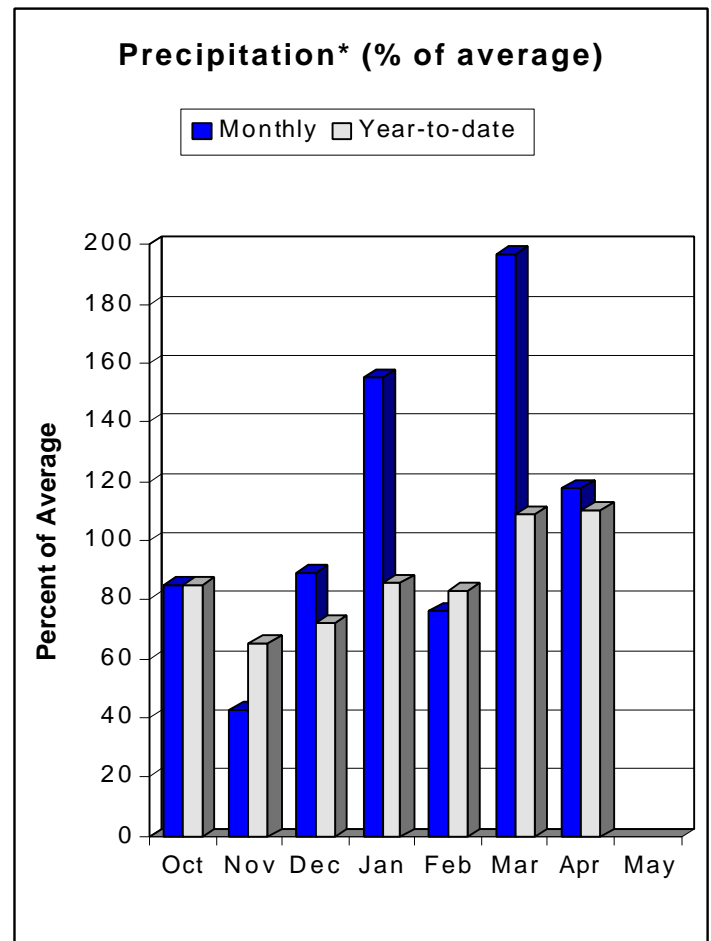
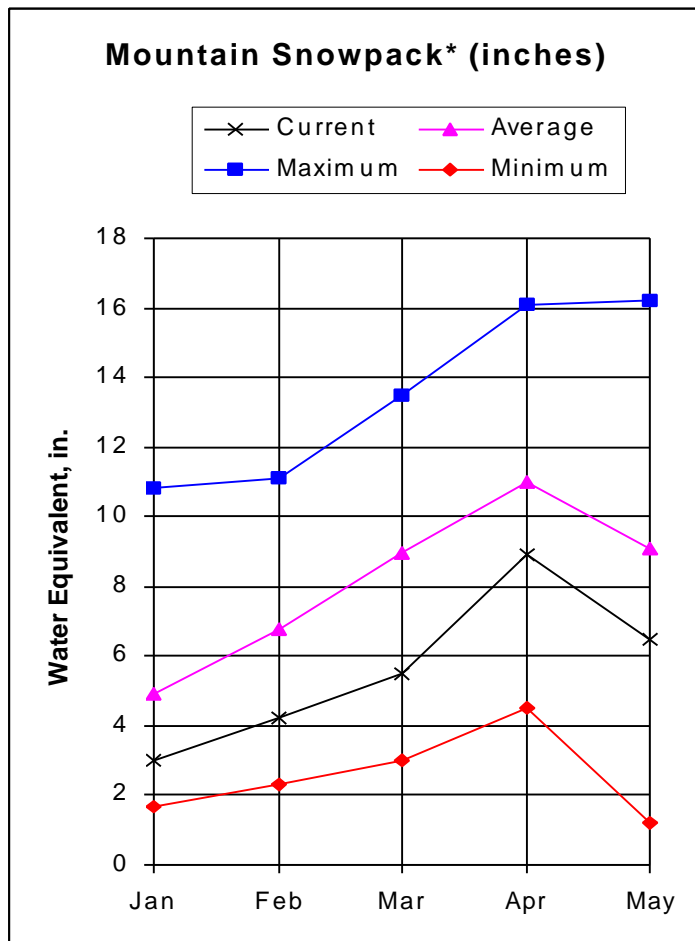
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# ARKANSAS RIVER BASIN

## as of May 1, 2000



\*Based on selected stations

Extremely warm temperatures during April have caused the snowpack in the Arkansas Basin to begin melting very rapidly. Many locations in the basin have lost nearly half of their snowpack accumulation during April. There is only 72% of average snowpack amounts in the basin at this time, which is 9% of average less than last month. The snowpack ranges from only 41% of average in the Purgatoire Watershed, to 88% of average in the Upper Arkansas Watershed above Salida. Precipitation was 118% of average during April, and the water year total is now 110% of average. The combined reservoir storage in the basin remains in great shape at 259% of average, which is 20% more storage than last year at this time. The Clear Creek Reservoir is the only reported reservoir with below average storage at only 91%. Much of the gains awarded during March to the streamflow forecasts, was lost during April due to the warm conditions. Forecasts now range from only 59% of average flow on the Cucharas River near La Veta, to 81% of average on the Arkansas River at Salida.

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ARKANSAS RIVER BASIN  
Streamflow Forecasts - May 1, 2000

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90%	70%	50% (Most Probable)		30%	10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Chalk Creek nr Nathrop	APR-SEP	10.9	17.5	22	76	27	33	29
Arkansas River at Salida	APR-SEP	169	212	241	81	270	313	297
Grape Creek nr Westcliffe	APR-SEP	4.8	6.6	12.0	60	17.4	25	20
Pueblo Reservoir Inflow	APR-SEP	221	285	328	83	371	435	394
Huerfano River nr Redwing	APR-SEP	5.7	8.5	10.3	69	12.1	14.9	15.0
Cucharas River nr La Veta	APR-SEP	2.6	5.6	7.7	59	9.8	12.8	13.0
Trinidad Lake Inflow	APR-SEP	11.0	22	30	70	38	49	43

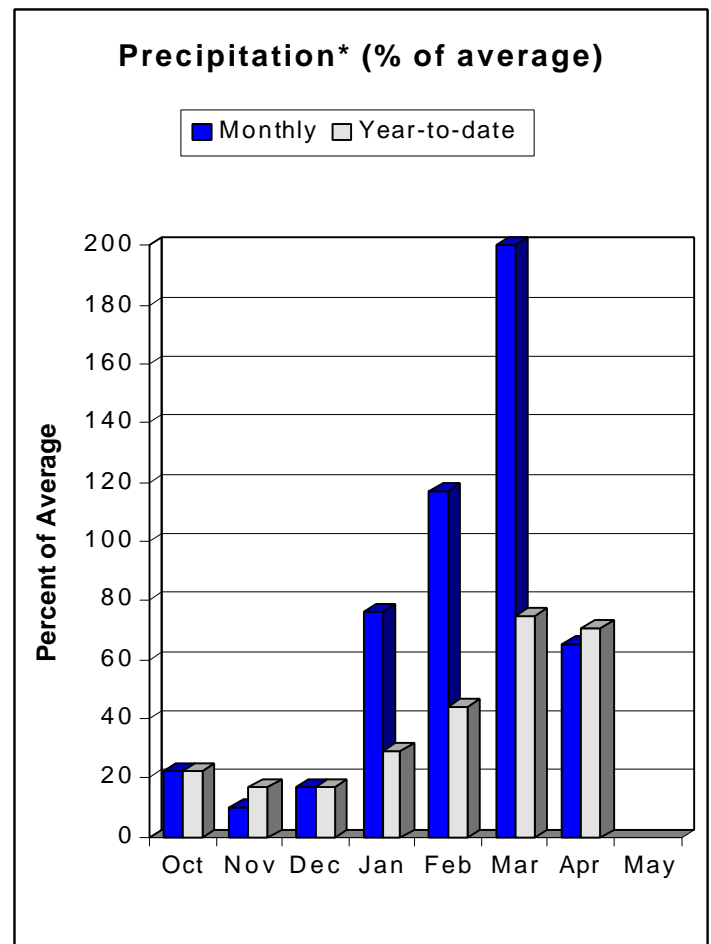
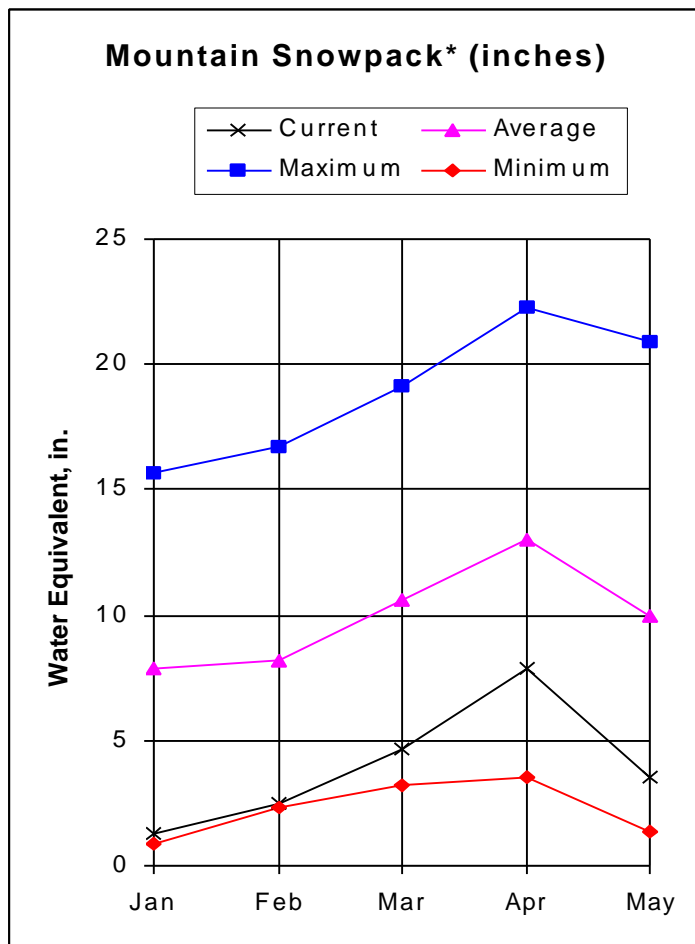
ARKANSAS RIVER BASIN Reservoir Storage (1000 AF) - End of April					ARKANSAS RIVER BASIN Watershed Snowpack Analysis - May 1, 2000			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ADOBE	70.0	69.2	60.7	16.9	UPPER ARKANSAS BASIN	7	88	88
CLEAR CREEK	11.0	5.8	9.2	6.4	CUCHARAS & HUERFANO RIVER	7	64	57
GREAT PLAINS	150.0	151.8	103.8	39.5	PURGATOIRE RIVER BASIN	2	25	41
HOLBROOK	7.0	6.2	5.8	4.1	TOTAL ARKANSAS RIVER BASIN	15	75	72
HORSE CREEK	28.0	24.0	18.1	7.6				
JOHN MARTIN	335.7	324.4	317.3	78.9				
LAKE HENRY	8.0	8.1	8.3	5.0				
MEREDITH	42.0	36.6	37.2	14.1				
PUEBLO	236.7	249.9	205.2	137.6				
TRINIDAD	72.3	70.5	23.2	30.4				
TURQUOISE	126.6	96.1	59.7	49.1				
TWIN LAKES	86.0	54.0	63.4	33.1				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

## UPPER RIO GRANDE RIVER BASIN as of May 1, 2000



\*Based on selected stations

Extremely warm temperatures and lack of additional snowfall has caused the snowpack in the Rio Grande Basin to rapidly melt away. Much of the basin's snowpack amounts are less than 1/3 of the amount there was last month. Snowpack ranges from only 28% of average in the Alamosa Watershed, to 40% of average in the Rio Grande above Del Norte Watershed. There is only 35% of the average snow accumulation for this time, which is 26% of average less than last month. There is only 40% of last year's snow accumulation. Precipitation in the basin was only 65% of average during April, and the water year total is only 71% of average. The combined reservoir storage in the basin is at 159% of average, which is 13% more than last year. The Rio Grande Reservoir however, contains only 57% of average storage for this time of year. Unfortunately, the warm dry conditions have caused the streamflow forecasts to slip down even lower than previous months. All of the forecasts are much below average and range from only 29% of average on the San Antonio River at Ortiz, to 75% of average on Culebra Creek at San Luis.

UPPER RIO GRANDE BASIN  
Streamflow Forecasts - May 1, 2000

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====		=====		=====		=====		=====
Rio Grande at Thirty Mile Bridge	APR-SEP	83	87	91	68	95	100	133
Rio Grande Reservoir Inflow	APR-JUL	73	78	82	70	86	92	118
Rio Grande at Wagon Wheel Gap	APR-SEP	185	208	223	68	238	261	330
South Fork Rio Grande at South Fork	APR-SEP	58	65	70	53	75	82	132
Rio Grande nr Del Norte	APR-SEP	260	293	315	61	337	370	520
Saguache Creek nr Saguache	APR-SEP	13.6	20	25	74	30	36	34
Alamosa Creek abv Terrace Reservoir	APR-SEP	23	31	36	52	41	49	69
La Jara Creek nr Capulin	MAR-JUL	1.55	2.24	3.80	44	5.36	7.67	8.60
Trinchera Water Supply	APR-SEP	6.9	14.7	20	67	25	33	30
Platoro Reservoir Inflow	APR-JUL	23	28	32	54	36	41	59
	APR-SEP	26	32	36	55	40	46	65
Conejos River nr Mogote	APR-SEP	77	97	110	55	123	143	201
San Antonio River at Ortiz	APR-SEP	2.4	3.7	4.7	29	5.9	7.8	16.0
Los Pinos River nr Ortiz	APR-SEP	23	29	34	47	39	45	72
Culebra Creek at San Luis	APR-SEP	5.6	11.2	15.0	75	18.8	24	20
Costilla Reservoir Inflow	MAR-JUL	3.47	4.84	5.90	65	7.06	8.98	9.10
Costilla Creek nr Costilla	MAR-JUL	5.2	10.3	13.8	63	17.3	22	22

UPPER RIO GRANDE BASIN  
Reservoir Storage (1000 AF) - End of April

UPPER RIO GRANDE BASIN  
Watershed Snowpack Analysis - May 1, 2000

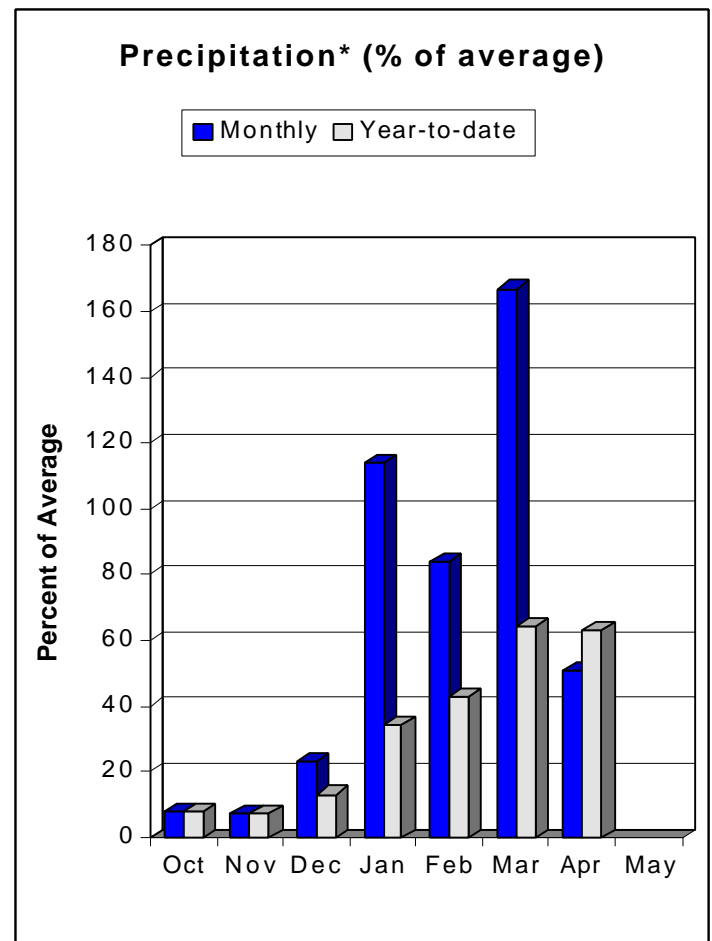
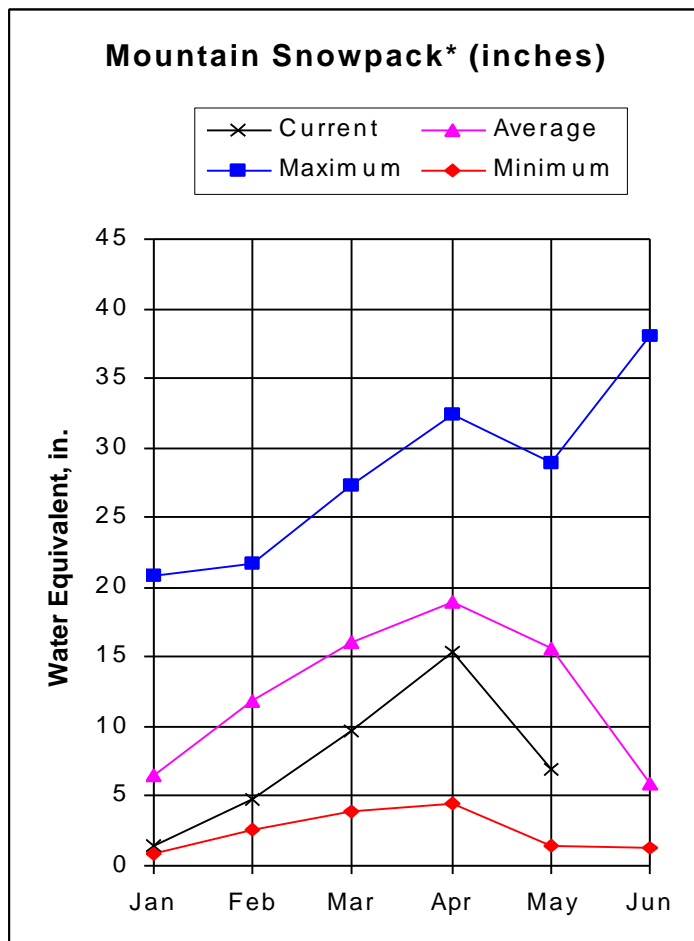
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CONTINENTAL	15.0	7.4	6.1	6.3	ALAMOSA CREEK BASIN	2	32	28
PLATORO	53.7	26.6	23.3	15.9	CONEJOS & RIO SAN ANTONIO	4	36	30
RIO GRANDE	51.0	11.6	23.5	20.3	CULEBRA & TRINCHERA CREEK	6	46	31
SANCHEZ	103.0	45.1	37.9	17.8	UPPER RIO GRANDE BASIN	12	42	41
SANTA MARIA	45.0	20.3	8.3	10.0	TOTAL UPPER RIO GRANDE BA	25	40	35
TERRACE	13.1	10.7	8.9	7.1				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
(2) - The value is natural volume - actual volume may be affected by upstream water management.

# SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS as of May 1, 2000



\*Based on selected stations

Very warm temperatures that began around April 1 have caused the snowpack in these basins to begin melting on schedule, but at an accelerated rate. There is less than half of the amount of snow left on May 1 that there was on April 1. There is only 46% of average snow in these basins now, which is 37% of average less than last month. Snowpack ranges from only 38% of average in the San Juan Watershed, to 52% of average in the Animas Watershed. The lower elevations and valleys received only 51% of average precipitation during March, and the water year total is now only 63% of average. The combined reservoir storage level in these basins is at 113% of average for this time of year, which is 11% more storage than last year at this time. Unfortunately, most of the gains awarded during March to last month's streamflow forecasts have been taken away for the May 1 forecasts due to extremely warm and dry conditions during April. All of the forecasts are well below average now and range from only 41% of average on the Rio Blanco at Blanco Diversion, to only 73% of average on the Dolores River at Dolores.

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Streamflow Forecasts - May 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====								
Dolores R at Dolores	APR-JUL	112	152	180	73	208	248	246
McPhee Reservoir inflow	APR-JUL	121	168	200	71	232	279	283
San Miguel River nr Placerville	APR-JUL	64	78	88	72	98	112	122
Gurley Reservoir Intake	MAY-JUL	6.2	8.6	10.3	64	12.0	14.4	16.2
	MAY			6.50	74			8.80
	JUNE			3.30	57			5.76
	JULY			0.50	31			1.64
Cone Reservoir Intake	MAY-JUL	1.19	1.31	1.40	49	1.50	1.65	2.85
	MAY			0.80	47			1.72
	JUNE			0.55	60			0.91
	JULY			0.05	23			0.22
Lilylands Reservoir Intake	MAY-JUL	1.31	1.48	1.60	66	1.72	1.89	2.43
	MAY			0.90	80			1.12
	JUNE			0.65	61			1.07
	JULY			0.05	21			0.24
Rio Blanco at Blanco Diversion	APR-JUL	8.7	16.6	22	41	27	35	54
Navajo River at Oso Diversion	APR-JUL	10.0	20	27	42	34	44	65
San Juan River nr Carracus	APR-JUL	114	156	189	50	225	283	382
Piedra River nr Arboles	APR-JUL	69	86	97	44	108	125	219
Vallecito Reservoir Inflow	APR-JUL	109	118	125	64	132	141	196
Navajo Reservoir Inflow	APR-JUL	191	289	355	46	421	519	772
Animas River at Durango	APR-JUL	186	242	280	67	318	374	418
Lemon Reservoir Inflow	APR-JUL	26	33	37	65	41	48	57
La Plata River at Hesperus	APR-JUL	10.4	12.5	14.0	58	15.5	17.6	24
Mancos River nr Mancos	APR-JUL	11.7	20	26	65	32	40	40
	MAY			14.0	88			15.9
	JUNE			7.0	51			13.7
	JULY			2.00	44			4.60

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS Reservoir Storage (1000 AF) - End of April					SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS Watershed Snowpack Analysis - May 1, 2000			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GROUNDHOG	21.7	18.3	18.6	13.1	ANIMAS RIVER BASIN	10	59	51
JACKSON GULCH	10.0	9.4	8.0	7.1	DOLORES RIVER BASIN	5	110	46
LEMON	40.0	35.0	21.2	23.4	SAN MIGUEL RIVER BASIN	5	72	44
MCPHEE	381.2	352.9	313.4	340.0	SAN JUAN RIVER BASIN	3	39	38
NARRAGUINNEP	19.0	18.1	17.2	17.1	TOTAL SAN MIGUEL, DOLORES	22	61	45
VALLECITO	126.0	96.2	97.5	66.7	AN JUAN RIVER BASINS			

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
(2) - The value is natural volume - actual volume may be affected by upstream water management.